

ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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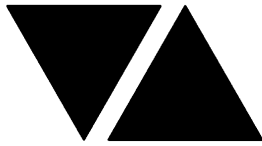
C3230a - ST JOHNS ANGLICAN COLLEGE, FOREST LAKE - AQUATIC CENTRE STAGE 2

C3230a-0005(B).xls

DISTRIBUTION BOARD DB-4 (POOL PLANT)

REVISION B - 01 DECEMBER 2025

FAULT CURRENT: 6kA UTILISING CASCADING CHASSIS SIZE: 2 X 84 POLES CHASSIS RATING: 250A PHASES: 3 MAIN SWITCH: 250 NON AUTO LOAD BREAK SOURCE: MSB SUPPLY CABLE: 1C 150							REV
							A
							B
							B
							A
PROVIDE THE DISTRIBUTION BOARD WITH SURGE PROTECTION AND AN AS2293 TESTING FACILITY. PROVIDE THE DISTRIBUTION BOARD WITH A SPARE WILL WIDTH HORIZONTAL DIN RAIL IN ADDITION TO THE DIN RAIL REQUIRED TO ACCOMMODATE THE CONTROLS SUPPLIED AS PART OF THE CONTRACT WORKS. PROVIDE A BMS CUBICAL INTEGRAL TO THE DB TO ACCOMMODATE THE BMS CONTROLLERS AND CONTACTORS.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	STAND	GPO	A
P2	1	20	RCBO	2.5	BASEMENT	FMP	A
P3	1	20	RCBO	2.5	BASEMENT	OFFICE GPOs	A
P4							B
P5	3	40	MCB	6.0	BASEMENT	AC	A
P6	1	20	RCBO	2.5	BASEMENT	STAFF GPOS	A
P7	1	20	RCBO	2.5	BASEMENT	STAFF GPOS	A
P8	1	20	RCBO	2.5	BASEMENT	CR-4	A
P9	1	20	RCBO	2.5	BASEMENT	SECURITY	A
P10	1	20	RCBO	2.5	BASEMENT	AMENITY	A
P11	3	40	MCB	6.0	BASEMENT	HWS	A
P12	3	20	RCBO TC ON & OFF	2.5	BASEMENT	WORKSHOP EXHAUST	A
P13	3	40	RCBO	6.0	BASEMENT	WORKSHOP 3PH OUTLET	A
P14	1	20	RCBO	2.5	WORKSHOP	GPO	A
P15	1	20	RCBO	2.5	WORKSHOP	GPO	A
P16	1	20	RCBO	2.5	WORKSHOP	GPO	A
P17	1	20	RCBO	2.5	BASEMENT	STORE GPO	A
P18	3	20	RCBO	2.5	BASEMENT	RSD	A
P19	3	20	RCBO	2.5	BASEMENT	RSD	A
P20	1	20	RCBO	2.5	BASEMENT	SUPA TAP	A
P21	1	20	RCBO	2.5	BASEMENT	SUPA TAP	A
P22	1	20	RCBO	2.5	BASEMENT	KITCHENETTE	A
P23	1	20	RCBO	2.5	BASEMENT	REF	A
P24	1	20	RCBO	2.5	BASEMENT	MW	A
P25	1	20	RCBO	2.5	GROUND	MAINTENANCE	A
P26	1	20	RCBO	2.5	GROUND	PUMP	A
P27	3	63	MCB 4-15	10.0	GROUND	6 X 6KW HWS	B
P28	1	20	RCBO	2.5	GROUND	PUMP	A
P29	3	63	MCB 4-16	10.0	GROUND	6 X 6KW HWS	B
P30	1	20	RCBO	2.5	GROUND	HD	A
P31	1	20	RCBO	2.5	GROUND	AMENITY GPO	A
P32	1	20	RCBO	2.5	GROUND	HD	A
P33	1	20	RCBO	2.5	GROUND	HD	A
P34	1	20	RCBO	2.5	GROUND	AMENITY GPO	A
P35	1	20	RCBO	2.5	GROUND	HD	A
P36	1	20	RCBO	2.5	GROUND	BB GPO	A
P37	1	20	RCBO	2.5	GROUND	AB GPO	A
P38	1	20	RCBO	2.5	GROUND	REF	A
P39	1	20	RCBO	2.5	GROUND	REF	A
P40	1	20	RCBO	2.5	GROUND	COFFEE	A
P41	1	20	RCBO	2.5	GROUND	COUNTER	A
P42	1	20	RCBO	2.5	BASEMENT	BMS	A
P43	1	20	RCBO	2.5	WORKSHOP	GPO	A
P44	3	63	MCB 4-17	10.0	GROUND	6 X 6KW HWS	B
P45	3	63	MCB 4-18	10.0	GROUND	6 X 6KW HWS	B
P46	1	20	RCBO	2.5	GROUND	MAINTENANCE	B
P47	1	20	RCBO 4-11	2.5	GROUND	EXHAUST	B
P48	1	20	RCBO 4-12	2.5	GROUND	EXHAUST	B
P49	1	20	RCBO 4-13	2.5	GROUND	EXHAUST	B
P50	1	20	RCBO 4-14	2.5	GROUND	EXHAUST	B
P51	1	20	RCBO	2.5	GROUND	OUTDOOR LEARNING	B



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MAIN SWITCH: 250 NON AUTO LOAD BREAK							A
SOURCE: MSB							B
SUPPLY CABLE: 1C 150							B
							A
PROVIDE THE DISTRIBUTION BOARD WITH SURGE PROTECTION AND AN AS2293 TESTING FACILITY. PROVIDE THE DISTRIBUTION BOARD WITH A SPARE WILL WIDTH HORIZONTAL DIN RAIL IN ADDITION TO THE DIN RAIL REQUIRED TO ACCOMMODATE THE CONTROLS SUPPLIED AS PART OF THE CONTRACT WORKS. PROVIDE A BMS CUBICAL INTEGRAL TO THE DB TO ACCOMMODATE THE BMS CONTROLLERS AND CONTACTORS.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
L1	1	20	RCBO 4-1	2.5	GROUND	POOL LIGHT	A
L2	1	20	RCBO 4-1	2.5	GROUND	POOL LIGHT	A
L3	1	20	RCBO 4-1	2.5	GROUND	POOL LIGHT	A
L4	1	20	RCBO 4-1	2.5	GROUND	POOL LIGHT	A
L5	1	20	RCBO 4-1	2.5	GROUND	POOL LIGHT	A
L6	1	20	RCBO 4-2	2.5	GROUND	STAND LIGHTS	A
L7	1	20	RCBO 4-3	2.5	GROUND	STAND LIGHTS	A
L8	1	20	RCBO 4-4	2.5	GROUND	STAND LIGHTS	A
L9	1	20	RCBO 4-5	2.5	GROUND	ACCESS LIGHTS	A
L10	1	20	RCBO 4-6	2.5	GROUND	AMENITY LIGHTS	A
L11	1	20	RCBO 4-7	2.5	GROUND	AMENITY LIGHTS	A
L12	1	20	RCBO 4-8	2.5	GROUND	OUTDOOR LEARNING LIGHTS	A
L13	1	20	RCBO	2.5	GROUND	AMENITY LIGHTS	A
L14	1	20	RCBO	2.5	BASEMENT	STORE LIGHTS	A
L15	1	20	RCBO	2.5	BASEMENT	WORKSHOP LIGHTS	A
L16	1	20	RCBO	2.5	BASEMENT	OFFICE LIGHTS	A
L17	1	20	RCBO	2.5	EXTERNAL	LIGHTING	A
L18	1	20	RCBO 4-9	2.5	EXTERNAL	SIGN	A
L19	1	20	RCBO 4-10	2.5	EXTERNAL	DOWNLIGHTS	B